Math 112 LQuiz 05

2022–01–25 (T)

Your name:	

Exercise

Consider the function

$$\mathsf{f}: \mathbf{R} \to \mathbf{R}$$

$$f(x) = x^3 + 3x^2 - 9x + 4$$

(a) (3 pt) Compute the linearization of (aka linear approximation to) f at x = 2.

(b) (1 pt) Use your linearization from part (a) to approximate the value f(2.1). Given that the actual value is f(2.1) = 7.591, find the error in this approximation.